

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-177225

(43)Date of publication of application : 24.06.1992

(51)Int.Cl.

G02F 1/313

G02B 6/12

(21)Application number : 02-305869

(71)Applicant : FUJIKURA LTD

(22)Date of filing : 09.11.1990

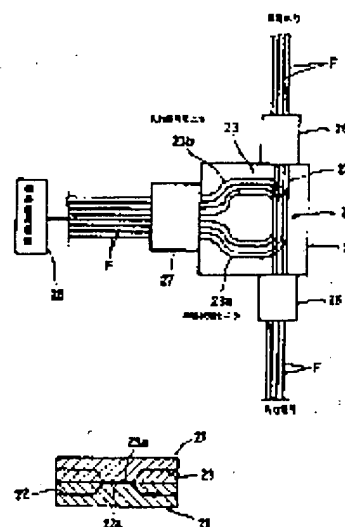
(72)Inventor : SHIODA TAKAO

## (54) OPTICAL WAVEGUIDE DEVICE

### (57)Abstract:

PURPOSE: To eliminate the intersection of optical waveguide circuits and ensure the compact design and freedom thereof from crosstalk in an optical waveguide circuit device having an optical fiber or an optical fiber connector at the terminal end thereof by connecting the optical waveguide circuits to each other in the vertical direction of a circuit board.

CONSTITUTION: An optical waveguide circuit board 21 has two different optical waveguide circuits 22 and 23. The circuit 22 is so formed as to have a straight line, while the other 23 has an approximately circular form. The connected section 24 of the circuits 22 and 23 is so made that the section of a straight connected waveguide 22a is at the lower layer side of the board 21, and the section of a U-shaped connected waveguide 23a is at the upper layer side of the board 21 respectively for connection in the vertical direction of the board 21. According to this construction, the optical waveguide circuits 22 and 23 are connected to each other in the vertical direction of the board 21 and, therefore, no circuit intersection is required as in the case of the conventional circuit board optical waveguide type of a device. Also, compact design and freedom from crosstalk can be ensured.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of

rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office